

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : KORASILON CC 5  
Article number : 8007-67  
Revision date : 02.06.2016  
Print date : 02.06.2016  
Version (Revision) : 2.1.0 (2.0.0)

## SECTION 1: Identification of the substance/mixture and of the company/ undertaking

### 1.1 Product identifier

KORASILON CC 5 (8007-67)  
Decamethylcyclopentasiloxane ; CAS No. : 541-02-6 ; EC No. : 208-764-9 ; REACH registration No. : 01-2119511367-43

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

#### Relevant identified uses

Intermediate Polishes and wax blends Cosmetics, personal care products Laboratory chemicals Textile dyes, finishing and impregnating products Bleaching agent Process regulator or aid

#### Uses advised against

No information available.

### 1.3 Details of the supplier of the safety data sheet

#### Supplier (manufacturer/importer/only representative/downstream user/distributor)

Kurt Obermeier GmbH & Co. KG  
Spezialchemikalien Holzschutz

**Street :** Berghäuser Str. 70

**Postal code/city :** 57319 Bad Berleburg

**Telephone :** +492751/524-0

**Telefax :** +492751/5041

**Information contact :** E-Mail: sdb@obermeier.de

### 1.4 Emergency telephone number

+49 2751/524-113 (Mo-Fr 08:00-16:00 / 8.00am-4.00pm)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [CLP]

None

#### Classification procedure

On basis of test data.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

##### Special rules for supplemental label elements for certain mixtures

EUH210 Safety data sheet available on request.

### 2.3 Other hazards

No information available.

#### Other adverse effects

Special danger of slipping by leaking/spilling product. Vapours can form explosive mixtures with air.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

**Substance name :** Decamethylcyclopentasiloxane

**EC No. :** 208-764-9

**REACH No. :** 01-2119511367-43

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CAS No. : 541-02-6  
Purity :  $\geq 95 - < 100$  % [mass]

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Change contaminated, saturated clothing. When in doubt or if symptoms are observed, get medical advice.

#### Following inhalation

Provide fresh air.

#### In case of skin contact

After contact with skin, wash immediately with plenty of water and soap.

#### After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

#### After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water.

#### Self-protection of the first aider

No special measures are necessary.

#### Information to physician

##### Treatment

Treat symptomatically.

### 4.2 Most important symptoms and effects, both acute and delayed

No information available.

### 4.3 Indication of any immediate medical attention and special treatment needed

None

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>) alcohol resistant foam Water spray jet Extinguishing powder Sand

#### Unsuitable extinguishing media

High power water jet

### 5.2 Special hazards arising from the substance or mixture

Vapours can form explosive mixtures with air.

### 5.3 Advice for firefighters

In case of fire toxic gases may be formed.

#### Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

### 5.4 Additional information

None

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Take the precautions customary when handling chemicals. Use personal protection equipment. Special danger of

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slipping by leaking/spilling product.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers).

### 6.3 Methods and material for containment and cleaning up

#### For cleaning up

Take up mechanically. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

### 6.4 Reference to other sections

None

### 6.5 Additional information

No data available

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes.

#### Protective measures

Use only in well-ventilated areas. Do not breathe gas/fumes/vapour/spray.

#### Measures to prevent fire

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep/Store only in original container.

#### Hints on joint storage

Keep away from: Oxidising agent. Acid Alkali (lye). Gas Explosives

Storage class (TRGS 510) : 10

#### Further information on storage conditions

Protect containers against damage.

### 7.3 Specific end use(s)

None

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

Decamethylcyclopentasiloxane ; CAS No. : 541-02-6

Limit value type (country of origin) : TWA ( EC )

Limit value : 10 ppm

Version :

#### Biological limit values

No data available

#### DNEL/DMEL and PNEC values

##### DNEL/DMEL

Limit value type : DNEL/DMEL (Consumer) ( Decamethylcyclopentasiloxane ; CAS No. : 541-02-6 )

Exposure route : Inhalation

Exposure frequency : Short-term (acute)

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Limit value : 4,3 mg/m<sup>3</sup>  
Limit value type : DNEL/DMEL (Consumer) ( Decamethylcyclopentasiloxane ; CAS No. : 541-02-6 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 4,3 mg/m<sup>3</sup>  
Limit value type : DNEL Consumer (systemic) ( Decamethylcyclopentasiloxane ; CAS No. : 541-02-6 )  
Exposure route : Inhalation  
Exposure frequency : Short-term (acute)  
Limit value : 17,3 mg/m<sup>3</sup>  
Limit value type : DNEL Consumer (systemic) ( Decamethylcyclopentasiloxane ; CAS No. : 541-02-6 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 17,3 mg/m<sup>3</sup>  
Limit value type : DNEL Consumer (systemic) ( Decamethylcyclopentasiloxane ; CAS No. : 541-02-6 )  
Exposure route : Oral  
Exposure frequency : Short-term (acute)  
Limit value : 5 mg/kg/day  
Limit value type : DNEL Consumer (systemic) ( Decamethylcyclopentasiloxane ; CAS No. : 541-02-6 )  
Exposure route : Oral  
Exposure frequency : Long-term (repeated)  
Limit value : 5 mg/kg/day  
Limit value type : DNEL worker (local) ( Decamethylcyclopentasiloxane ; CAS No. : 541-02-6 )  
Exposure route : Inhalation  
Exposure frequency : Short-term (acute)  
Limit value : 24,2 mg/m<sup>3</sup>  
Limit value type : DNEL worker (local) ( Decamethylcyclopentasiloxane ; CAS No. : 541-02-6 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 24,2 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) ( Decamethylcyclopentasiloxane ; CAS No. : 541-02-6 )  
Exposure route : Inhalation  
Exposure frequency : Short-term (acute)  
Limit value : 97,3 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) ( Decamethylcyclopentasiloxane ; CAS No. : 541-02-6 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 97,3 mg/m<sup>3</sup>

### PNEC

Limit value type : PNEC aquatic, freshwater ( Decamethylcyclopentasiloxane ; CAS No. : 541-02-6 )  
Limit value : 0,0012 mg/l  
Limit value type : PNEC aquatic, marine water ( Decamethylcyclopentasiloxane ; CAS No. : 541-02-6 )  
Limit value : 0,00012 mg/l  
Limit value type : PNEC sediment, freshwater ( Decamethylcyclopentasiloxane ; CAS No. : 541-02-6 )  
Limit value : 2,39 mg/kg  
Limit value type : PNEC sediment, marine water ( Decamethylcyclopentasiloxane ; CAS No. : 541-02-6 )  
Limit value : 0,239 mg/kg  
Limit value type : PNEC soil, freshwater ( Decamethylcyclopentasiloxane ; CAS No. : 541-02-6 )  
Limit value : 3,34 mg/kg  
Limit value type : PNEC sewage treatment plant (STP) ( Decamethylcyclopentasiloxane ; CAS No. : 541-02-6 )  
Limit value : > 10 mg/l

## 8.2 Exposure controls

### Personal protection equipment

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## Eye/face protection

Eye glasses with side protection

## Skin protection

### Hand protection

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

**Suitable material** : Butyl caoutchouc (butyl rubber) NBR (Nitrile rubber)

**Breakthrough time (maximum wearing time)** : 480 minutes. Check leak tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Additional hand protection measures** : flame-retardant

## Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

### Suitable respiratory protection apparatus

Filtering device with filter or ventilator filtering device of type: A

## General health and safety measures

Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing. Wash hands before breaks and after work. Keep away from food, drink and animal feeding stuffs. P283 - Wear fire/flame resistant/retardant clothing. Wear anti-static footwear and clothing

## 8.3 Additional information

No data available

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

**Physical state** : liquid

**Colour** : Different according to colour

#### Odour

light

#### Safety relevant basis data

<b>Solidifying point</b> :	( 1 bar / 1 Pa )	not determined	Brookfield
<b>Melting point/melting range</b> :		not determined	
<b>Freezing point</b> :		not determined	
<b>Initial boiling point and boiling range</b> :	approx.	210 °C	
<b>Decomposition temperature</b> :		not determined	
<b>Flash point</b> :	approx.	77 °C	
<b>Ignition temperature</b> :	approx.	392 °C	
<b>Lower explosion limit</b> :	approx.	0,4 Vol-%	
<b>Upper explosion limit</b> :	approx.	13,2 Vol-%	
<b>Vapour pressure</b> :	( 20 °C )	<	2 hPa
<b>Vapour pressure</b> :	( 50 °C )		not determined
<b>Density</b> :	( 25 °C )	approx.	0,95 g/cm <sup>3</sup>
<b>Solvent separation test</b> :	( 20 °C )		not determined
<b>Fat solubility</b> :	( 20 °C )		Not determined.
<b>Solubility in water</b>			Insoluble
<b>pH</b> :	( 20 °C )		not determined

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log P O/W :	>	5
Kinematic viscosity ( 25 °C )	approx.	3,8 mm <sup>2</sup> /s
Odour threshold :		not determined
Relative vapour density : ( 20 °C )		not determined
Evaporation rate :		not determined
Vapourisation rate :	<	1 (Ether = 1)
Flammable solids :		No data available.
Flammable gases :		No data available.
Oxidising liquids :		No data available.
Explosive properties :		Not determined.
Corrosive to metals :		Not determined.

## 9.2 Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reactions known.

### 10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3 Possibility of hazardous reactions

Combustible substance Vapours can form explosive mixtures with air.

### 10.4 Conditions to avoid

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges.

### 10.5 Incompatible materials

Oxidising agent. Acid Alkali (lye).

### 10.6 Hazardous decomposition products

Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

### 10.7 Additional information

No data available

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute effects

##### Acute oral toxicity

Parameter :	LD50
Exposure route :	Oral
Species :	Rat
Effective dose :	> 5000 mg/kg

##### Acute dermal toxicity

Parameter :	LD50
Exposure route :	Dermal
Species :	Rat
Effective dose :	> 2000 mg/kg
Method :	OECD 402

##### Acute inhalation toxicity

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Parameter : LC50  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 8,67 mg/l  
Exposure time : 4 h  
Method : OECD 403

### STOT-single exposure

The product has not been tested.

### Specific symptoms in animal studies

The product has not been tested.

### Irritant and corrosive effects

#### Primary irritation to the skin

Parameter : Primary irritation to the skin  
Species : Rabbit  
Exposure time : 72 h  
Result : Not irritating.  
Method : OECD 404

#### Irritation to eyes

Parameter : Irritation to eyes  
Species : Rabbit  
Result : Not irritating.  
Method : OECD 405

#### Irritation to respiratory tract

The product has not been tested.

### Sensitisation

#### In case of skin contact

Parameter : Skin sensitisation  
Species : Guinea pig  
Result : Not sensitising.

#### In case of inhalation

The product has not been tested.

### Repeated dose toxicity (subacute, subchronic, chronic)

#### Subacute oral toxicity

Parameter : NOAEL(C)  
Exposure route : Oral  
Species : Rat  
Effective dose : => 1000 mg/kg  
Exposure time : 90 d

#### Subacute dermal toxicity

Parameter : NOAEL(C)  
Exposure route : Dermal  
Species : Rat  
Effective dose : => 1600 mg/kg  
Exposure time : 28 d  
Method : OECD 410

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## Subacute inhalation toxicity

Parameter : NOAEL(C)  
Exposure route : Inhalation  
Species : Rat  
Effective dose :  $\geq 160$  ppm  
Exposure time : 720 d

## CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

### Carcinogenicity

Parameter : Carcinogenicity  
Test result : Negative.  
No indication of human carcinogenicity.

### Germ cell mutagenicity

No indications of human germ cell mutagenicity exist.

### In vitro mutagenicity

Parameter : In vitro mutagenicity  
Test result : Ames test negative.

### In vivo mutagenicity

Parameter : In-vivo Unscheduled DNA Synthesis (UDS)  
Species : Rat  
Test result : Negative.

## Reproductive toxicity

No indications of human reproductive toxicity exist.

## Developmental toxicity/teratogenicity

### Two generation reproduction toxicity test

Parameter : Two generation reproduction toxicity test  
Species : Rat  
Test result : Negative.

## STOT-single exposure

The product has not been tested.

## STOT-repeated exposure

The product has not been tested.

## Aspiration hazard

The product has not been tested.

## 11.2 Toxicokinetics, metabolism and distribution

The product has not been tested.

## 11.4 Other adverse effects

No data available

## 11.5 Additional information

No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

##### Acute (short-term) fish toxicity

Parameter : LC50  
Species : Oncorhynchus mykiss (Rainbow trout)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose :  $> 0,0016$  mg/l  
Exposure time : 96 h



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**Method :** OECD 204

### Chronic (long-term) fish toxicity

**Parameter :** NOEC  
**Species :** Oncorhynchus mykiss (Rainbow trout)  
**Evaluation parameter :** Chronic (long-term) fish toxicity  
**Effective dose :** => 0,0014 mg/l  
**Exposure time :** 90 d  
**Method :** OECD 210

### Acute (short-term) daphnia toxicity

**Parameter :** EC50  
**Species :** Daphnia magna (Big water flea)  
**Evaluation parameter :** Acute (short-term) daphnia toxicity  
**Effective dose :** > 0,0029 mg/l  
**Exposure time :** 48 h  
**Method :** OECD 202

### Chronic (long-term) daphnia toxicity

**Parameter :** NOEC  
**Species :** Daphnia magna (Big water flea)  
**Evaluation parameter :** Chronic (long-term) daphnia toxicity  
**Effective dose :** => 0,0015 mg/l  
**Method :** OECD 211  
**Parameter :** LOEC  
**Species :** Daphnia magna (Big water flea)  
**Evaluation parameter :** Chronic (long-term) daphnia toxicity  
**Effective dose :** > 0,0015 mg/l  
**Exposure time :** 21 d  
**Method :** OECD 210

### Acute (short-term) algae toxicity

**Parameter :** EC50  
**Species :** Pseudokirchneriella subcapitata  
**Evaluation parameter :** Acute (short-term) algae toxicity  
**Effective dose :** > 0,0012 mg/l  
**Exposure time :** 96 h  
**Method :** OECD 201

### Chronic (long-term) algae toxicity

The product has not been tested.

### Bacteria toxicity

**Parameter :** EC50  
**Species :** Bacteria toxicity  
**Effective dose :** > 2000 mg/l  
**Exposure time :** 3 h

### Terrestrial toxicity

The product has not been tested.

### Toxicity to terrestrial plants

The product has not been tested.

### Effects in sewage plants

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Parameter : EC50  
Inoculum : Municipal  
Effective dose : > 2000 mg/l

### 12.2 Persistence and degradability

#### Abiotic degradation

The product has not been tested.

#### Biodegradation

Parameter : Biodegradation  
Effective dose : 0,14 %  
Exposure time : 28 d  
Method : OECD 310

### 12.3 Bioaccumulative potential

Parameter : Bioconcentration factor (BCF)  
Pimephales promelas (fathead minnow)  
Concentration :  $\geq 500$

### 12.4 Mobility in soil

The product has not been tested.

#### Adsorption/Desorption

### 12.5 Results of PBT and vPvB assessment

This substance meets the vPvB criteria of REACH, Annex XIII. Remarks: Decamethylcyclopentasiloxane (D5) meets the current REACH Annex XIII criteria for vPvB. However, D5 does not behave similarly to known PBT/vPvB substances. The weight of scientific evidence from field studies shows that D5 is not biomagnifying in aquatic and terrestrial food webs.

### 12.6 Other adverse effects

No data available

### 12.7 Additional ecotoxicological information

No data available

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Consult the appropriate local waste disposal expert about waste disposal.

#### Product/Packaging disposal

##### Waste treatment options

##### Appropriate disposal / Product

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

##### Appropriate disposal / Package

Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

### 14.1 UN number

No dangerous good in sense of these transport regulations.

### 14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

### 14.3 Transport hazard class(es)

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No dangerous good in sense of these transport regulations.

### 14.4 Packing group

No dangerous good in sense of these transport regulations.

### 14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

### 14.6 Special precautions for user

None

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations

##### Water hazard class (WGK)

Class : 1 (Slightly hazardous to water) Classification according to VwVwS

#### Additional information

##### Substance/product listed in the following inventories

AICS REACH ENCS (Class 1 and 2) IECS TSCI KECI DSL/NDSL NZIoC PICCS TSCA

### 15.2 Chemical safety assessment

No information available.

## SECTION 16: Other information

### 16.1 Indication of changes

02. Label elements

### 16.2 Abbreviations and acronyms

**REACH** - Registration, Evaluation, Authorisation of Chemicals

**GHS** - Globally Harmonised System of Classification and Labeling

**CLP** - Classification, Labeling and Packaging of Substances and Mixtures

**CAS** - Chemical Abstract Service

**TWA** - Time Weighted Average

**DNEL/DMEL** - Derived No Effect Level

**PNEC** - Predicted No Effect Concentration

**STP** - Sewage Treatment Plant

**TRGS** - Technical Rules for Hazardous Substances (German Regulations)

**STEL** - Short-term Exposure Limit

**TLV** - threshold limit value

**AGW** - Occupational threshold limit value

**RCP** - Reciprocal Calculation Procedure

**ATE** - Acute Toxicity Estimate

**MAK** Threshold limit values Germany

**LD50** - Lethal Dose, 50%

**LC50** - Lethal concentration, 50%

**OECD** - Organization for Economic Cooperation and Development

**NOAEL** - No Observed Adverse Effect Level

**EC50** - half maximal effective concentration

**NOEC** - No Observed Effect Concentration

**PBT** - Persistent, Bioaccumulative, Toxic

**vPvB** - very Persistent, very Bioaccumulative

**ADR/RID** - European Agreement concerning the International Carriage of Dangerous Goods by Road (Accord européen relatif au transport international des marchandises Dangereuses par Route)/Regulations Concerning the International Transport of Dangerous Goods by Rail (Règlement concernant le transport International ferroviaire de marchandises Dangereuses)

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**IMDG** - International Maritime Dangerous Goods Code  
**ICAO** - International Civil Aviation Association  
**IATA** - International Air Transport Association  
**VwVws** - German administrative regulation on the classification of substances hazardous to water into water hazard classes

### 16.3 Key literature references and sources for data

None

### 16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

No information available.

### 16.4 Relevant H- and EUH-phrases (Number and full text)

None

### 16.5 Training advice

None

### 16.6 Additional information

None

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The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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